# NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
# ENVIRONMENTAL MANAGER CERTIFICATION

## WHEN A CEM IS REQUIRED

Nevada Administrative Code (NAC) 459 requires that any person who provides information, opinion or advice for a fee (or in conjunction with services for which a fee is charged) relating to:

(1) the management of hazardous waste;
(2) investigation of a site to determine the release or potential release of a hazardous substance (waste, material, or regulated substance);
(3) sampling of air, soil, surface water or groundwater to determine the release of a hazardous substance;
(4) response to a release of a hazardous substance;
(5) cleanup of a release of a hazardous substance; or
(6) remediation of water or soil contaminated by a hazardous substance.

These services must be performed under the direction and responsible control of a person who is certified as an Environmental Manager by the Nevada Division of Environmental Protection (NDEP).

## MINIMUM QUALIFICATIONS

The minimum qualifications for certification are:

(1) Good character and reputation, as determined by NDEP upon review of references and criminal record.

(2) CEM application approval to include a bachelor's or advanced degree from an accredited college or university in an environmentally related field, plus 3 years within the past 5 of relevant experience; or relevant professional registration or certification, plus 3 years within the past 5 of relevant experience; or an equivalent combination of appropriate education and experience, as determined by NDEP.

(3) **Pass a written examination**

The Environmental Manager examination is administered by the NDEP. Examinations are given twice per year until further notice.

**Fees**

Application Fee: $100.00

Exam Fee: $150.00

Renewal Fee: $100.00 (every two years)

Application and renewal fees must be included at the time of submittal. NAC. 459.9726(2) states an applicant whose application is approved by the division and wishes to take the examination must submit a nonrefundable examination fee **at least 30 days before the examination is given**.

# GUIDANCE DOCUMENT FOR CEM APPLICATION

## PAGE 1

*2 x 2 PHOTO*

- Attach a 2 X 2 photo (full face view) on top left hand corner of application. This photo can be a jpeg digital transmission to the Certification Program Coordinator's email address.

*APPLICANT INFORMATION*

- Provide your home address and phone number. Provide business address if you do not want your home address used.

*BUSINESS INFORMATION*

- Provide the business name, address, phone number/cell phone and email address.

*EDUCATION*

- Name of college, location, degree earned (i.e., AA, AS, BA, BS, MA, MS, etc)

*PROFESSIONAL REGISTRATION OR CERTIFICATION*

- Professional registrations (i.e., PE, REA, PG, RG, etc.) and what State issued the registration.

## PAGE 2-3

*EXPERIENCE*

- When completing the boxes (6) for experience use additional sheets of paper for a complete and detailed description. The boxes on the application are typically not adequate and do not normally give you enough space to write a detailed description.

  Boxes 1-6 on pages 2 and 3 contain the following areas of expertise.

  (1) RCRA Wastes~~:~~
  (2) Site Investigation
  (3) Sampling
  (4) Release Response
  (5) Release to Clean Up
  (6) Remediation

**EXAMPLES**

Here are a few examples to assist you in completing these boxes. Keep in mind that your expertise may vary from these examples, and you may not have information for each category. This is an example only. Percentiles for the six categories combined should add up to 100%.

**RCRA Wastes (1)**

Inspect, audit and assist facilities that deal with RCRA waste. This may include proper storage, labeling, and accumulation time knowledge and disposal expertise. (Include the types of wastes the facility uses.)

Conduct RCRA compliance environmental audits for manufacturers

Evaluation of compliance with RCRA small quantity and large quantity generators, provide direction on how to comply with the applicable requirements.

Prepared hazardous waste management plan

**Site Investigation (2)**

Perform Phase I site investigations per ASTM guidelines (include how many performed)

Perform Phase II site investigations per ASTM guidelines; include site visit, sampling etc. (Include how many performed). Was the site investigation a desktop survey, or did you actually go in the field and look at surrounding properties.

Manage groundwater sampling to evaluate compliance

Review investigation and cleanup reports

Evaluate extent of groundwater contamination and evaluated cleanup technologies.

Perform risk calculations that indicated groundwater contaminant levels and make site recommendations about site cleanup based on site investigation.

**Sampling (3)**

Air sampling/monitoring: sampled air using Dragger tubes during waste handling operations.

Sampled effluent from vapor extraction systems using tedlar bags to assess the effectiveness of carbon adsorption or thermal oxidation equipment.

Solid waste sampling: sampled waste streams at manufacturing facility to verify the contents for disposal purposes.

Soil sampling: performed composite sampling of soil cuttings from soil borings and well installations to facilitate proper disposal. Sampled affected soil following leaks and spills, typically of gasoline or diesel fuel to assure adequate removal and clean up.

Groundwater sampling: Sampled groundwater from monitoring wells, and analyzed for pH, specific conductivity, dissolved oxygen, and oxidation-reduction potential.
Quarterly monitoring to assess the extent of and effectiveness of remediation activities on groundwater plume contaminated with gasoline products due to former leaking UST.

Sampled for chlorinated organic solvents due to dry cleaning activities. Also sampled for natural attenuation parameters nitrate, sulfate, chloride, alkalinity and ferrous iron.

Treated wastewater sampling: sampled and analyzed to verify the effectiveness of the treatment process.

Effluent sampling: Sampled water from air stripping operations for volatile organic compounds to assess treatment processes.

Use Nevada Certified Laboratories for all sampling analyses.

Collect grab and composite runoff samples in accordance with NPDES permit requirements.

Used proper sampling, handling and disposal techniques for hazardous waste.

**Release Response (4)**

Cleaned up and contained various spills. List chemicals involved. Describe how the product was cleaned up and how it was remediated and disposed.

**Release Clean Up (5)**

Generation of Health and Safety –Plan, delineation of the exclusion, decontamination and support zones, incorporating the proper level of PPE. Removal of contaminated soils, safe handling of drums, responsible for decon of equipment. Proper removal and disposal of waste. Address all safety issues. Contain release prior to other support on scene.

**Remediation (6)**

Installation, maintenance, monitoring of groundwater remediation system, including air sparging/vacuum extraction systems and air strippers.

Evaluated sampling data to determine need for remediation.

Research remedial methodologies, pump and treat, in-situ anaerobic biodegradation, and monitored natural attenuation

Evaluate and install ground-water systems

Have knowledge of monitor well construction to delineate plume migration.

Perform operations and maintenance for pump and treat groundwater systems.

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|---|---|
| *CRIMINAL RECORD*: | Include environmentally related crimes only |
| *ACKNOWLEDGEMENT*: | Include original signature, blue ink preferred |
| *REFERENCES*: | Include 3 references with original signatures |
| *APPLICATION FEE*: | Include $100.00 application fee, made out to NDEP |
| *MISCELLANEOUS*: | Read |

► Submit prior to NDEP deadlines. NDEP review time requires 4-6 weeks once all required material has been submitted. **THERE IS NO GRACE PERIOD**.

**For Additional Information Contact:**

Division of Environmental Protection
Bureau of Corrective Actions
Certification Branch
901 S. Stewart Street - 3rd Floor
Carson City, NV 89701
(775) 687-9374

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